

- Ref Items Type RT Index-term**
- R1 17778 12 • TRANSFERRIN
R2 10525 X DC=D12.776.124.50.800. (TRANSFERRIN)
R3 10525 X DC=D12.776.124.790.223.839. (TRANSFERRIN)
R4 10525 X DC=D12.776.15.890. (TRANSFERRIN)
R5 10525 X DC=D12.776.377.15.182.839. (TRANSFERRIN)
R6 10525 X DC=D12.776.556.901. (TRANSFERRIN)
R7 28 X 1 SIDEROphilin
R8 66560 R 13 IRON
R9 2785 R 5 RECEPtors, TRANSFERRIN
R10 1910 B 20 ACUTE-PHASE PROTEINS
R11 2917 B 11 BGLOBULINS
R12 47607 B 92 CARRIER PROTEINS .
- Ref Items Type RT Index-term**
- R1 57961 12 • GENE EXPRESSION
R2 57961 X DC=G5.331.370. (GENE EXPRESSION)
R3 119527 R 9 PHENOTYPE
R4 5905 B 129 GENETICS, BIOCHEMICAL
R5 590 N 5 AMINO ACID ACTIVATION
R6 111 N 5 FRAMESHIFTING, RIBOSOMAL
R7 1554 N 4 GENOMIC IMPRINTING
R8 1355 N 6 PEPTIDE CHAIN ELONGATION
R9 2449 N 7 PEPTIDE CHAIN INITIATION
R10 917 N 6 PEPTIDE CHAIN TERMINATION
R11 176 N 3 POLARITY OF TRANSLATION
R12 80177 N 15 TRANSCRIPTION, GENETIC
- Set Items Description**
- S1 17778 "TRANSFERRIN"
S2 769 "TRANSFERRIN -GENETICS -GE"
S3 10525 DC=D12.776.124.50.800.*
S4 7435 "RECOMBINANT FUSION PROTEINS -BIOSYNTHESIS"
B* S5 13306 "RECOMBINANT PROTEINS -BIOSYNTHESIS -BI"
S6 27 S3 AND S5
S7 17 S4 AND S3 NOT S6
S10 194 S2 AND EXPRESS?
S11 13 S10 AND PLASMID?
S12 7 S2 AND PLASMID? NOT (S6 OR S7 OR S11)
S13 42 S3 AND PLASMID? NOT (S6 OR S7 OR S11 OR S2)
- 6/6/1 10525460 200401464
Selective gene expression in hepatic tumor with trans-arterial delivery of DNA/liposome/transferrin complex. Jul-Aug 2000
- 6/6/2 10515902 20290236
Ferritin from the obligate anaerobe *Porphyromonas gingivalis*; purification, gene cloning and mutant studies. May 2000
- 6/6/3 10016106 99362990
The poly(A)-limiting element is a conserved cis-acting sequence that regulates poly(A) tail length on nuclear pre-mRNAs. Aug 3 1999
- 6/6/4 09821374 99150972
Gene-modified dendritic cells by receptor-mediated transfection. 1998
- 6/6/5 09813902 99155227
X-ray crystallography and mass spectroscopy reveal that the N1-lobe of human transferrin expressed in *Pichia pastoris* is folded correctly but is glycosylated on serine. 32. Feb 23 1999
- 6/6/6 09664817 98426066
Iron release is reduced by mutations of lysines 206 and 295 in recombinant N-terminal half-transferrin. Sep 29 1998
- 6/6/7 09421766 98070718
Characterization of the *Pasteurella haemolytica* transferrin receptor genes and the recombinant receptor proteins. Nov 1 1997
- 6/6/8 09393093 98030902
Transferrin is an early marker of hepatic differentiation, and its expression correlates with the postnatal development of oligodendrocytes in mice. Nov 1 1997
- Receptor recognition sites reside in both lobes of human serum transferrin. Aug 15 1997
- 6/6/10 09042304 96261067
Production of recombinant human monoclonal antibody using ras-amplified BHK-21 cells in a protein-free medium. May 1996
- 6/6/11 09004888 96341687
Distinct positive and negative regulatory elements control neuronal and hepatic transcription of the human transferrin gene. Feb 1 1996
- 6/6/12 08722642 96264874
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- 6/6/13 08714177 96218058
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- 6/6/14 08703953 96106930
Production of lipitated meningococcal transferrin binding protein 2 in *Escherichia coli*. Oct 1995
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Tightly regulated and inducible expression of dominant interfering dynamin mutant in stably transformed HeLa cells. 1995
- 6/6/16 08635386 96200999
Cloning and characterization of the human tartrate-resistant acid phosphatase (TRAP) gene. Apr 1996
- 6/6/17 08471298 96106936
Production and purification of N-terminal half-transferrin in *Pichia pastoris*. Oct 1995
- 6/6/18 08426605 96078941
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- 6/6/19 08404715 96016189
A novel iron uptake mechanism mediated by GPI-anchored human p97. Sep 1 1995
- 6/6/20 08320009 95310332
Oligomerized transferrin receptors are selectively retained by a luminal sorting signal in a long-lived endocytic recycling compartment. Jun 1995
- 6/6/21 08150955 95200743
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- 6/6/22 07864704 94171934
Molecular cloning and subcellular localization of three GTP-binding proteins of the rab subfamily. Dec 1993
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- 7/6/3 10239127 2007226
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- 7/6/4 10138591 99447650
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- 6/6/25 06894237 92338899
Efficient production and isolation of recombinant amino-terminal half-molecule of human serum transferrin from baby hamster kidney cells. Apr-Jun 1991
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- 6/6/27 05061914 87280357
Functional expression of the human transferrin receptor cDNA in Chinese hamster ovary cells deficient in endogenous transferrin receptor. Jul 1987
- 6/7/26 DIALOG(R)File 155MEDLINE(R) (c) format only 2000 Dialog Corporation. All rts. reserv.
- 06389815 90241967
Expression of the amino-terminal half-molecule of human serum transferrin in cultured cells and characterization of the recombinant protein.
Funk WD; MacGillivray RT; Mason AB; Brown SA; Woodworth RC
Department of Biochemistry, University of British Columbia,
Vancouver, Canada.
Biochemistry (UNITED STATES) Feb 13 1990, 29 (6) p1654-60, ISSN 0006-2960 Journal Code: A0G
Contract/Grant No.: DK21739, DK_NIDDK Languages: ENGLISH
Document type: JOURNAL ARTICLE
A human liver cDNA library was screened with a synthetic oligonucleotide complementary to the 5' region of human transferrin mRNA, as a hybridization probe. The full-length human cDNA clone isolated from this screen contained part of the 5' untranslated region, the complete coding region for the signal peptide and the two lobes of transferrin, the 3' untranslated region, and a poly(A) tail. By use of oligonucleotide-directed mutagenesis in vitro, two translational stop codons and a HindIII site were introduced after the codon for Asp-337. This fragment was inserted into two different expression vectors that were then introduced into *Escherichia coli*. As judged by NaDodsSO4-polyacrylamide gel electrophoresis and Western blot analysis, however, recombinant hTF2/N was undetectable in bacteria produced by these plasmids. Concurrently, we developed a plasmid vector for the expression of recombinant hTF2/N in eukaryotic cells. In this case, a DNA fragment coding for the natural signal sequence, the hTF2/N lobe, and the two stop codons was cloned into the expression vector pHNT, such that the expression of hTF2/N was controlled by the mouse metallothionein promoter and the human growth hormone termination sequences. Baby hamster kidney cells containing this hTF2/N-pHNUT plasmid secreted up to 20 mg of recombinant hTF2/N per liter of tissue culture medium. Recombinant hTF2/N was purified from the medium by successive chromatography steps on DEAE-Sephadex, Sephadex G-75, and FPLC on Polyamion SI. The purified protein was characterized by NaDodsSO4-PAGE, urea-PAGE, amino-terminal sequence analysis, UV-visible spectroscopy, iron-binding titration, and proton NMR.(ABSTRACT TRUNCATED AT 250 WORDS)

An antigenic HIV-1 peptide sequence engineered into the surface structure of transferrin does not elicit an antibody response. Oct 8 1999

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Production and characterization of fusion proteins containing transferrin and nerve growth factor. 1998

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Purification and refolding of recombinant human proMMP-7 (pro-matriisin) expressed in Escherichia coli and its characterization. Apr 1996

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Receptor ligand-facilitated gene transfer: enhancement of liposome-mediated gene transfer and expression by transferrin. Feb 10 1996

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Follicle stimulating hormone (FSH) stimulates transferrin gene transcription in rat Sertoli cells, cis and trans-acting elements involved in FSH action via cyclic adenosine 3'-monophosphate on the transferrin gene. Jun 1995

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Interaction of DNA binding domain of HNF-3 α with its transferrin enhancer DNA specific target site. Aug 7 1995

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Molecular conjugate vectors mediate efficient gene transfer into gastrointestinal epithelial cells. Sep 1 1994

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CCC.UGA: a new site of ribosomal frameshifting in Escherichia coli. May 27 1994

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Propagation of a mouse myeloma cell line 1558L producing human CD4 immunoglobulin G1. Jan 21 1992

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Human transferrin: expression of chimeric human transferrin genes by iron. May 11 1993

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Modulation of chimeric human transferrin genes in transgenic mice. 1991

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Transferrin: a highly efficient way to express gene constructs in eukaryotic cells. Oct 28 1992

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Structural-functional studies of human transferrin by using in vitro mutagenesis. 1991

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06/81/8930 92/06/3596
Structural-functional studies of human transferrin by using in vitro mutagenesis.

Chow BK; Funk WD; Baufield DK; Lineback JA; Mason AB; Woodworth RC; MacGillivray RT
Department of Biochemistry, University of British Columbia, Vancouver, Canada.

Current studies in hematology and blood transfusion (SWITZERLAND) 1991, (58), p132-8, ISSN 0258-0330 Journal Code: DWT Contract/Grant No.: DK2/1759, DK, NIDDK Languages: ENGLISH Document type: JOURNAL ARTICLE, REVIEW, REVIEW, TUTORIAL (12 Refs.)

Effect of nitric oxide on expression of transferrin receptor and ferritin and on cellular iron metabolism in K562 human erythroleukemia cells. May 15 1995

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Cytokine-mediated regulation of transferrin synthesis in mouse macrophages and human T lymphocytes. Feb 15 1995

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Cellular iron homeostasis: a paradigm for mechanisms of posttranscriptional control of gene expression. 1994

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Spatial and temporal expression of transferrin gene in the rat mammary gland. Jul 1994

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Transferrin gene expression in maternal liver, fetal liver and placenta during pregnancy in the mouse. Jul-Aug 1993

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Changes of proliferative activity and phenotypes in spontaneous differentiation of a colon cancer cell line. Jun 1993

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Transferrin gene as a model for liver-specific gene expression. 1993

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Expression of glycosylated and nonglycosylated human transferrin in mammalian cells. Characterization of the recombinant proteins with comparison to three commercially available transferrins. May 25 1993

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Immunohistochemical expression of microtubule-associated protein 5 (MAP5) in glial cells in multiple system atrophy. May 1992

Introduction of the ras oncogene transforms a simian virus 40-immortalized hepatocyte cell line without loss of expression of albumin and other liver-specific genes. Feb 15 1992

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Expression of chimeric human transferrin genes in vitro. Dec 1990

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Glucose-dependent and -independent effect of insulin on gene expression. Feb 25 1991

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Human transferrin. Expression and iron modulation of chimeric genes in transgenic mice. Aug 5 1990

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Directed establishment of rat brain cell lines with the phenotypic characteristics of type I astrocytes. Jul 15 1992

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Loss of one asparagine-linked oligosaccharide from human transferrin receptors results in specific cleavage and association with the endoplasmic reticulum. Mar 5 1992

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An overview of iron metabolism at a molecular level. Improved coupling between proliferation-arrest and differentiation-induction in ML-1 human myeloblastic leukemia cells. Dec 1990

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Lipid-induced hypercholesterolemia in mice: prevention by overexpression of LDL receptors. Nov 30 1990

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Germ cell regulation of Sertoli cell transferrin mRNA levels. Mar 1990

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Hepatocyte differentiation in vitro: initiation of tyrosine aminotransferase expression in cultured fetal rat hepatocytes. Dec 1989

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An overview of iron metabolism at a molecular level. Nov 1989

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0578818 90094542

Hepatocyte differentiation in vitro: initiation of tyrosine aminotransferase expression in cultured fetal rat hepatocytes. Dec 1989

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Hepatocyte differentiation in vitro: initiation of tyrosine aminotransferase expression in cultured fetal rat hepatocytes. Dec 1989

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The expression of genes coding for positive acute-phase proteins in the reproductive tract of the female rat. High levels of ceruloplasmin mRNA in the uterus. Jan 30 1989

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Tissue-specificity of liver gene expression: a common liver-specific promoter element. Apr 25 1988

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Modulation of α -fetoprotein, albumin and transferrin gene expression by cellular interactions and dexamethasone in cocultures of fetal rat hepatocytes. Aug 1987

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Persistence of liver-specific messenger RNA in cultured hepatocytes: different regulatory events for different genes. Dec 1987

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Liver-specific RNA metabolism in hepatoma cells: variations in transcription rates and mRNA levels. Oct 1985

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Transferrin: evolution and genetic regulation of expression. 1988

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Transient transcriptional inhibition of the transferrin gene by cyclic AMP. Sep 23 1985

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Interactions of DNA-binding proteins with the 5' region of the human transferrin gene. Jul 25 1988

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Transferrin synthesis by inducer T lymphocytes. Mar 1 1986

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Expression of the transferrin receptor gene during the process of mononuclear phagocyte maturation. Feb 15 1986

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- 10/6/181 05135109 88086992 Transferin mRNA level in the mouse mammary gland is regulated by pregnancy and extracellular matrix. Dec 25 1987
- 10/6/182 05046554 87242715 Stage-dependent levels of specific mRNA transcripts in Sertoli cells. May 1987
- 10/6/183 04973876 87064365 Estrogen regulation of the avian transferin gene in transgenic mice. Apr 1986
- 10/6/184 04842726 86016769 Transferin gene expression visualized in oligodendrocytes of the rat brain by using *in situ* hybridization and immunohistochemistry. Oct 1985
- 10/6/185 04788592 85174412 High prealbumin and transferrin mRNA levels in the choroid plexus of rat brain. Mar 29 1985
- 10/6/186 04552246 82277750 Expression of human hepatic genes in somatic cell hybrids. May 1982
- An artefact explains the apparent association of the transferrin receptor with a ras gene product. Oct 18-24 1984
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- 10/6/188 04361227 84002242 Specific expression of transferred genes. Foreign genes, which were transferred into mice, appear to be expressed according to more normal patterns of tissue distribution [news] Dec 2 1983
- 10/6/189 04241223 84073112 Expression of the transferin gene during development of non-hepatic tissues: high level of transferrin mRNA in fetal muscle and adult brain. Jul 18 1984
- 10/6/190 04194044 84087947 Selective block of albumin gene expression in chick embryo hepatocytes cultured without hormones and its partial reversal by insulin. Dec 25 1983
- 10/6/191 04112206 84256787 Expression of the transferin gene in mouse hepatoma-human amniocyte hybrids. Jan 1979
- 10/6/192 03839138 821719572 Mapping of aminoacylase-1 and β -galactosidase-A to homologous regions of human chromosome 3 and mouse chromosome 9 suggests location of additional genes. Mar 1982
- 10/6/193 02929606 79159838 Expression of human hepatic genes in mouse hepatoma-human amniocyte hybrids. Jan 1979
- The relation between transferrin locus and the breeding quality traits of our country cattle race: lowland black-white and lowland red-white. 1978
- Corporation. All rts. reserv.
- 10/7/186 DIALOG(R)File 155.MEDLINE(R) (c) format only 2000 Dialog Corporation. All rts. reserv.
- 04241223 84073112 Specific expression of transferred genes. Foreign genes, which were transferred into mice, appear to be expressed according to more normal patterns of tissue distribution [news]
- Marx JL
- Science (UNITED STATES) Dec 2 1983, 222(4627) p1001-2, ISSN 0036-8075 Journal Code: UJ7 Languages: ENGLISH Document type: NEWS
- 10/7/187 DIALOG(R)File 155.MEDLINE(R) (c) format only 2000 Dialog Corporation. All rts. reserv.
- 04552246 82277750 Expression of human hepatic genes in somatic cell hybrids. Darlington GJ; Rankin JK; Schlaenger G Somatic cell Genetics (UNITED STATES) May 1982, 8 (3) p403-12, ISSN 0098-0366 Journal Code: VAJ Languages: ENGLISH Document type: JOURNAL ARTICLE
- Four diploid human cell types (lymphocytes, fibroblasts, amniotic fluid cells, and hepatocytes) were fused to mouse hepatoma cells, HH. HH synthesized and secreted several liver-specific gene products including albumin, transferrin, and α -fetoprotein. The resulting interspecific hybrids were compared to determine whether or not the pattern of human hepatic gene expression was similar when these various cells were fused with the

mouse hepatoma line. The expression of six human hepatic genes was examined, including albumin, α -fetoprotein, ceruloplasmin, transferrin, α -1-antitrypsin, and haptoglobin. Albumin was most frequently expressed while α -fetoprotein was not detected in any of the hybrids studied. The patterns of expression of human serum proteins differed between the hybrid series. Hybrids derived from human fibroblasts produced primarily albumin, while those derived from lymphoblastoid cells and amniocytes had a higher frequency of clones secreting α -1-antitrypsin. The findings reported here suggest that the frequency of hybrid clones expressing human hepatic gene products and the array of proteins produced are influenced by the histogenetic state of the human parental cell type.

10/7/188 DIALOG(R)File 155.MEDLINE(R) (c) format only 2000 Dialog Corporation. All rts. reserv.

04361227 84002242 Expression of the chicken transferrin gene in transgenic mice.

McKnight GS; Hammer RE; Kuenzel EA; Brinster RL Cell (UNITED STATES) Sep 1983, 34 (2) p335-41, ISSN 0092-8674 Journal Code: CQ4 Languages: ENGLISH Document type: JOURNAL ARTICLE

The chicken transferrin gene was microinjected into the male pronucleus of fertilized mouse eggs, and the eggs were then implanted into foster mothers. Approximately 15%-30% of the offspring from the injected eggs carried chicken DNA sequences; restriction mapping indicated that multiple copies of the chicken gene had integrated into the genome in a tandem arrangement in most of the mice. Six of the seven mice studied expressed the chicken gene, and in five mice there was a 5 to 10 fold preferential expression of chicken transferrin mRNA in liver compared to that in other tissues. Chicken transferrin was secreted into the serum of five of the mice, where it reached steady state concentrations up to 67 micrograms/ml. Offspring from transgenic parents also expressed the chicken gene; in some cases the expression in offspring was very similar to the parent, but in one line expression in offspring had increased 2 to 4 fold.

10/7/189 DIALOG(R)File 155.MEDLINE(R) (c) format only 2000 Dialog Corporation. All rts. reserv.

04241223 84073112 Specific expression of transferred genes. Foreign genes, which were transferred into mice, appear to be expressed according to more normal patterns of tissue distribution [news]

Marx JL

Science (UNITED STATES) Dec 2 1983, 222(4627) p1001-2, ISSN 0036-8075 Journal Code: UJ7 Languages: ENGLISH Document type: NEWS

10/6/190 02603131 79164882 A versatile system for receptor-mediated gene delivery permits increased entry of DNA into target cells, enhanced delivery to the nucleus and elevated rates of transgene expression. Aug 2000

10/6/191 10507570 20379254 Identification of a mutation (A1879G) of transferrin from cDNA prepared from peripheral blood cells. May 1998

Successful transfection of lymphocytes by ternary lipplexes. Dec 1999

11/6/3 09742157 99020112 Identification of a mutation (A1879G) of transferrin from cDNA prepared from peripheral blood cells. May 1998

11/6/2 104633221 20297971 High-yield production of functionally active human serum transferrin using a baculovirus expression system, and its structural characterization. Oct 1 1996

Sertoli cell-specific expression of the human transferin gene. Comparison with the liver-specific expression. May 25 1991

11/6/6 07361281 91235762 The enhancer of the human transferrin gene is organized in two structural and functional domains. May 25 1991

11/6/7 07357540 91178851 Expression of chimeric human transferrin genes in vitro. Dec 1990

11/6/8 07343540 90330684 Human transferrin. Expression and iron modulation of chimeric genes in transgenic mice. Aug 5 1990

11/6/9 07343450 90339224 Expression of chimeric human transferrin genes in transfected human tumor cell lines. Jan 1990

11/6/10 07126248 92003508 High-efficiency gene transfer mediated by adenovirus coupled to DNA-polylysine complexes. Apr 1992

11/6/11 07078485 92340395 Estrogen-dependent expression of the chicken very low density apolipoprotein II gene in serum-free cultures of LMTK cells. Jun 1992

11/6/12 06883524 92231399 A cloned gene for human transferrin. Dec 27 1991

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11/7/7 DIALOG(R)File 155.MEDLINE(R) (c) format only 2000 Dialog Corporation. All rts. reserv.

07357540 91178851 Expression of chimeric human transferrin genes in vitro.

Fischbach K; Lu Y; Tiffany-Castiglioni E; Minter A; Bowman BH; Adriam GS

Department of Cellular and Structural Biology, University of Texas HealthScience Center, San Antonio, Texas 78284

Journal of neuroscience research (UNITED STATES) Dec 1990, 27 (4) p633-41, ISSN 0360-4012 Journal Code: KAC Contract/Grant No.: AG 06872, AG, NIA; AG06650, AG, NIA Languages: ENGLISH Document type: JOURNAL ARTICLE

Transferrin (TF), a major plasma protein, binds and transports ferric iron. Evidence exists for unique roles for TF in brain in oligodendrocyte differentiation, myelin and neuronal development. In this study, 5' flanking regions of the TF gene important in regulating gene expression were identified by transfected cell studies and a comparison of 5' flanking sequences of the human TF and TF receptor genes. Human glioma cell lines HTB-16 and HTB-17 were shown to synthesize TF identical in size and immunological reaction to TF synthesized by liver. The expression of a series of human chimeric TF genes in glioma cells was compared with hepatoma and HeLa cells. A difference in transient expression was observed in hepatoma and glioma cells transfected with TF chimeric genes containing 3.9 kb of the 5' region; hepatoma cells demonstrated significantly more expression than did glioma cells, suggesting that a DNA region present in the 3.9-kb construct is important either in liver-specific expression or in repression of brain expression, or in both. Smaller constructs containing less than or equal to 0.622 kb of the 5' regulatory region of the TF gene failed to demonstrate cell-specific expression; they were expressed in HeLa cells, a line that does not synthesize TF. High levels of expression of 0.15-kb TF constructs were also observed in hepatoma and glioma cell lines, but not in transgenic mice. Possible explanations of differences observed in expression of shorter TF constructs *in vitro* and *in vivo* are discussed.

Adrian GS; Bowman BH; Herbert DC; Weaker FI; Adrian EK; Robinson LK; Walter CA; Eddy CA; Richl R; Pauerstein CJ; et al

Department of Cellular and Structural Biology, University of Texas Health Science Center, San Antonio 78284.

Journal of biological chemistry (UNITED STATES) Aug 5 1990, 265 (22) p13344-50, ISSN 0021-9258 Journal Code: HIV Contract/Grant No.: AG 06872, AG, NIA; AG 06650, AG, NIA; AG 00165, AG, NIA. + Languages: ENGLISH Document type: JOURNAL ARTICLE

Transferrin (TF) is a plasma protein that transports and is regulated by iron. The aim of this study was to characterize human Tf gene sequences that respond in vivo to cellular signals affecting expression in various tissues and on administration. Chimeric genes were constructed containing 152, and 1152 base pairs (bp) of the human TF5'-flanking region with the coding region of a reporter gene, CAT (chloramphenicol acetyltransferase), and introduced into the germ line of mice. Transgenes containing TF 5'-flanking sequences to -152 bp were expressed poorly in all tissues examined. In contrast, transgenes containing TF sequences to -622 or -1152 bp were expressed at high levels in brain and liver, greater than or equal to 1000-fold higher than tissues such as heart and testes. Liver and brain are major sites of endogenous TF mRNA synthesis, but liver mRNA levels are 10-fold higher than brain. A significant diminution of CAT enzymatic activity in liver accompanied iron administration in both TF(0.67) and TF(1.2)CAT transgenic mice, mimicking the decrease of transferrin in humans following iron overload. Levels of endogenous plasma transferrin also decreased in iron-treated transgenic mice. Transgenic mouse lines carrying human Tf chimeric genes will be useful models for analyzing the regulation of human transferrin by iron and for determining the molecular basis of transferrin regulation throughout mammalian development into the aging process.

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07343450 90329224

Expression of chimeric human transferrin genes in transfected human tumor lines.

rian GS; Fischbach K; Lu Y; Gayet O; Rivera E; Bowman BH

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SAAS bulletin, biochemistry and biotechnology (UNITED STATES) Jan 1990, 3 p97-101, Journal Code: ALK Contract/Grant No.: AG06872, AG, NIA. Languages: ENGLISH Document type: JOURNAL ARTICLE

The iron-binding plasma protein transferrin (TF) is essential for supplying iron to cells and the prevention of iron toxicity. Our laboratory has cloned and characterized the human TF gene. Comparison of promoter regions of TF genes from human, chicken, and mouse reveals a strong nucleotide sequence conservation. This study demonstrates that 5' flanking regions of the TF gene are sufficient for directing expression of a heterologous gene in transgenic mice and transfected cells. For cell-specific expression, more than 150 base pairs appear to be required.

12/6/1 10517255 20391205 Targeted delivery of plasmid DNA to myogenic cells via transferrin-conjugated peptide nucleic acid. Mar 2000

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12/6/3 09179445 97331419 Production of PCR munits for any semi quantitative PCR application [published erratum appears in Biotechniques 1997 Oct;23(4):672] Jun 1997

12/6/4 09031074 96294304 Role of catechol siderophore synthesis in *Vibrio vulnificus* virulence. Jul 1996

12/6/5 04609742 84167844 [Cloning of double-stranded DNA--a transcript of rat transferrin mRNA] Klonirovaniye dvunitevoi DNK--transkripta mRNK transferrina krys. Jan-Feb 1984.

Human transferrin. cDNA characterization and chromosomal localization. May 1984.

12/6/7 04113124 85052479 [Mapping of the transferrin gene in laboratory rats, mice and man by direct hybridization] Kartirovaniye gena transferrina u laboratornykh krys, myshei i cheloveka metodom priamoj gibridizatsii in situ. Oct 1984.

12/7/5 DIALOG(R)File 155: MEDLINE(R) (c) format only 2000 Dialog Corporation. All rts. reserv.

04609742 84167844

[Cloning of double-stranded DNA--a transcript of rat transferrin mRNA]

Klonirovaniye dvunitevoi DNK--transkripta mRNK transferrina krys. Ryskov AP; Timchenko NA; Timchenko LT; Salikhov TA; Gatsoskii VS Molekuljarnaya biologija (USSR) Jan-Feb 1984, 18 (1) p104-14, ISSN 0026-8384 Journal Code: NGX Languages: RUSSIAN Summary: Languages: ENGLISH Document type: JOURNAL ARTICLE; English Abstract:

Two-stage synthesis of double-stranded DNA was performed using purified rat transferrin mRNA as a template, reverse transcriptase and DNA polymerase I. Double-stranded transcripts of transferrin mRNA were cloned as recombinant plasmid derivatives of pBR322. The insert length in these plasmids varied from 150 to 1500 bp. Clones carrying transferrin mRNA sequences were identified using colony hybridization and Southern blot hybridization with 32P-cDNA probe. Nick-translated DNAs from transformed clones hybridized with a single component of rat liver polysonal RNA that corresponded to transferrin mRNA in its molecular weight (0.86 MD). In hybridization selection cell-free translation test cloned plasmid DNAs hybridized specifically with rat liver poly(A)+RNA that programmed the cell-free synthesis of a polypeptide identical to pretransferrin in antigenic properties and molecular weight.

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04147103 84194084 Human transferrin: cDNA characterization and chromosomal localization. Proceedings of the National Academy of Sciences of the United States of America (UNITED STATES) May 1984, 81 (9) p2752-6, ISSN 0027-8424 Journal Code: PV3 Contract/Grant No.: HD16534, HD, NICHD; GM33298, GM, NICMS Languages: ENGLISH Document type: JOURNAL ARTICLE

Transferrin (TF) is the major iron binding protein in vertebrate serum. It shares homologous amino acid sequences with four other proteins: lactotransferrin, ovotransferrin, melanoma antigen p97, and HuBlym-1. Antigen p97 and the Tf receptor genes have been mapped on human chromosome 3. The goal of the study described here was to initiate the characterization of the Tf gene by identifying and characterizing its cDNA and mapping its chromosomal location. Recombinant plasmids containing human cDNA encoding Tf have been isolated by screening an adult human liver library with a mixed oligonucleotide probe. Within the 2.3 kilobase pairs of Tf cDNA analyzed, there is a probable leader sequence encoded by

57 nucleotides followed by 2037 nucleotides that encode the homologous amino and carboxyl domains. During evolution, three areas of the homologous amino and carboxyl domains have been strongly conserved, possibly reflecting functional constraints associated with iron binding. Chromosomal mapping by *in situ* hybridization and somatic cell hybrid analysis indicate that the Tf gene is located at q21-25 on human chromosome 3, consistent with linkage of the Tf, Tf receptor, and melanoma p97 loci.

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04113124 85052479

[Mapping of the transferrin gene in laboratory rats, mice and man by direct *in situ* hybridization] Kartirovaniye gena transferrina u laboratornykh krys, myshei i cheloveka metodom priamoj gibridizatsii in situ. Baranov VS; Shvarzman AL; Gorbunova VN; Ryskov AP; Timchenko NA Genetika (USSR) Oct 1984, 20 (10) p1584-93, ISSN 0016-6758 Journal Code: FINN Languages: RUSSIAN Summary: Languages: ENGLISH Document type: JOURNAL ARTICLE; English Abstract:

Mapping of the gene coding for transferrin was carried out in metaphase chromosomes from bone marrow of laboratory mice and rats as well as from PHA-stimulated human lymphocytes using *direct in situ hybridization* technique. Plasmid pRTF-7 carrying the insert of rat transferrin cDNA was nick-translated with [³²P]dCTP and used as a specific hybridization probe. The total number of silver grains and their distribution along differentially stained chromosomes were determined in 464 metaphase plates (114, 263 and 87 from rat, mouse and man, respectively). The data obtained enable us to assign transferrin gene to chromosome 3 in human and chromosome 9 in mouse. For the first time, the rat transferrin gene was localized on chromosome 7. The most probable sites of transferrin gene localization are 7q31-34, 9q1-3 and 3q21 in rat, mouse and human chromosomes, respectively.

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Different behaviour of lipid based and polycation based gene transfer systems in transfecting primary human fibroblasts: a potential role of polylysine in nuclear transport. Jun 28 1999

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Engineering receptor-mediated cytotoxicity into human ribonucleases by steric blockade of inhibitor interaction [see comments] Mar 1999

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The size of DNA/transferrin-PEI complexes is an important factor for gene expression in cultured cells. Oct 1998

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Transferrin receptor-independent uptake of dipheric transferrin by human hepatoma with antisense inhibition of receptor expression. Jun 1996

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Mutations in the cytoplasmic domain of the integrin $\beta 1$ chain indicate a role for endocytosis factors in bacterial internalization. Mar 29 1996

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Further studies on targeted DNA transfer to cells using a highly efficient delivery system of biotinylated transferrin and biotinylated polylysine complexed to streptavidin. 1995

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Characterization of newly established testicular peritubular and prostatic stromal cell lines: potential use in the study of mesenchymal-epithelial interactions. Jul 1995

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Utilization of transferrin-bound iron by *Haemophilus influenzae* requires an intact tonB gene. Feb 1995

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High-efficiency gene transfer to autologous rabbit jugular vein grafts using adenovirus-transferin/polylysine-DNA complexes. Dec 1994

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Regulation of protein kinase C (PKC) expression by iron: effect of different iron compounds on PKC- β and PKC- α gene expression and role of the 5'-flanking region of the PKC- β gene in the response to ferric transferrin. Nov 15 1994

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Studies on the transfer of DNA into cells through use of avidin-polylysine conjugates complexed to biotinylated transferrin and DNA. 1993

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Presence of a capsule in *Vibrio vulnificus* biotype 2 and its relationship to virulence for cells. May 1993

13/6/23 07:46:31:62 92:1:4791
Pseudomonas aeruginosa LasB mutant constructed by insertional mutagenesis reveals elastolytic activity due to alkaline proteinase and the LasA fragment. Sep 1991

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Transferrin-polylysine conjugates as carriers for DNA uptake into cells. May 1990

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Influenza virus hemagglutinin HA-2 N-terminal fusogenic peptides augment gene transfer by transferrin-polylysine-DNA complexes toward a synthetic virus-like gene-transfer vehicle. Sep 1 1992

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[A new e-expressible VH-gene of the 36-40 family participates in the biosynthesis of antibodies against swine transferrin] Novyj eksprezintenemy VH-gen semeistva 36-40 uchastvuet v biosinteze antitel protiv svinoogo transferrina. Apr 1990

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Receptor-mediated endocytosis of transferrin-polycation conjugates: an efficient way to introduce DNA into hematopoietic cells. May 1990

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Binding of DNA to albumin and transferrin modified by treatment with water-soluble carbodiimides. Apr 15 1986

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Regulation of gene transcription by estrogen and progesterone. Lack of hormonal effects on transcription by *Escherichia coli* RNA polymerase. Oct 25 1980

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A plasmid associated with virulence in the marine fish pathogen *Vibrio anguillarum* specifies an iron-sequestering system. Apr 10 1980

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Transfer in gene expression. Regulation of mRNA transcription in chick liver by steroid hormones and iron deficiency. Jan 10 1980

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03275700 800772071
Transferrin gene expression. Regulation of mRNA transcription in chick liver by steroid hormones and iron deficiency.
McKnight GS; Lee DC; Palmer RD
Journal of biological chemistry (UNITED STATES) Jan 10 1980, 255 (1) p148-53, ISSN 0021-9258 Journal Code: HIV Languages: ENGLISH Document type: JOURNAL ARTICLE

27Apr01 11:05:40 User#208600 Session D1390.2
File : Biosis Previews(R) 1969-2001/Apr W4 (c) 2001 BIOSIS

Set Items Description
S1 18786 TRANSFERRIN
S2 766912 PLASMID? OR EXPRESS?

S3 2995 S1 AND S2
S4 1267 S3 NOT PY=(1992 OR 1993 OR 1994 OR 1995 OR 1996 OR 1997 OR 1998 OR 1999 OR 2000 OR 2001)

S5 338 S4 NOT RECEPTOR?
S6 6852 TRANSFERRIN/TI
S7 93 S5 AND S6
S8 71493 PLASMID?

S9 13 S6 AND S8 NOT PY=(1992 OR 1993 OR 1994 OR 1995 OR 1997 OR -)
S10 38 S1 NOT S6 AND PLASMID? NOT RECEPTOR

1997 OR 1998 OR 1999 OR 2000 OR 2001)

07997033 BIOSIS NO.: 000093052706
CHARACTERIZATION OF THE ACTIVE PART OF THE HUMAN TRANSFERRIN GENE ENHANCER AND PURIFICATION OF TWO LIVER NUCLEAR FACTORS INTERACTING WITH THE TGTTGC MOTIF PRESENT IN THIS REGION 1991

7/6/2 07:94:54:48 BIOSIS NO.: 000093024546
EXPRESSION AND INITIAL CHARACTERIZATION OF FIVE SITE-DIRECTED MUTANTS OF THE AMINO TERMINAL HALF-MOLECULE OF HUMAN TRANSFERRIN 1991

7/6/3 07:83:91:13 BIOSIS NO.: 000041103534
HUMAN TRANSFERRIN EXPRESSION OF CHIMERIC GENES IN TRANSGENIC MICE 1991

7/6/4 07:94:72:23 BIOSIS NO.: 000092087794
DISTURBANCES IN THE EXPRESSION OF GENES DETERMINING TRANSFERRIN POLYMORPHISM IN CARP CYPRINUS-CARPIO L 1990 1991

7/6/5 07:46:81:1 BIOSIS NO.: 00009206532
TRANSFERRIN-DIRECTED AND ALBUMIN-DIRECTED EXPRESSION OF GROWTH-RELATED PEPTIDES IN TRANSGENIC SHEEP 1991

7/6/6 07:27:80:7 BIOSIS NO.: 000092052438
EXPRESSION OF TRANSFERRIN MESSENGER RNA IN THE CNS OF NORMAL AND JIMPY MICE 1991

7/6/7 07:26:66 BIOSIS NO.: 000092050897
IMMUNOCYTOCHEMICAL LOCALIZATION OF ALBUMIN TRANSFERRIN ANGIOTENSIN-NOGEN AND KININOGENS DURING THE INITIAL STAGES OF THE RAT LIVER DIFFERENTIATION 1991

7/6/8 07:68:19:06 BIOSIS NO.: 000092028827
SERTOLI CELL-SPECIFIC EXPRESSION OF THE HUMAN TRANSFERRIN GENE COMPARISON WITH THE LIVER-SPECIFIC EXPRESSION 1991

7/6/9 07:68:19:04 BIOSIS NO.: 000092028825

THE ENHANCER OF THE HUMAN TRANSFERRIN GENE IS ORGANIZED IN TWO STRUCTURAL AND FUNCTIONAL DOMAINS 1991

7/6/10 07534169 BIOSIS NO.: 00009204413
THE DISTRIBUTION OF CEREBRAL EXPRESSION OF THE TRANSFERRIN GENE IS SPECIES SPECIFIC 1991

7/6/11 0763294 BIOSIS NO.: 000040123503
CEREBRAL DEVELOPMENTAL ALTERATION IN APO E AND TRANSFERRIN GENE EXPRESSION IN PTU-TREATED HYPOHYROID RATS 1991

7/6/12 07591911 BIOSIS NO.: 000091120700
THE RELEASE OF IRON AND TRANSFERRIN FROM THE HUMAN MELANOMA CELL 1991

7/6/13 07543427 BIOSIS NO.: 000091095505
A TRANSPORTER-LIKE HEMIFERRIN MESSENGER RNA IS EXPRESSED IN THE GERM CELLS OF RAT TESTIS 1991

7/6/14 07519566 BIOSIS NO.: 000091082695
FETAL ALCOHOL DELAYS THE DEVELOPMENTAL EXPRESSION OF MYELIN BASIC PROTEIN AND TRANSFERRIN IN RAT PRIMARY OLIGODENDROCYTE CULTURES 1991

7/6/15 07505259 BIOSIS NO.: 000091079128
VARIATIONS IN THE LEVEL OF TRANSFERRIN AND SGP-2 MESSENGER RNA IN SERTOLI CELLS OF VITAMIN A-DEFICIENT RATS 1991

7/6/16 07432578 BIOSIS NO.: 000091038567
TISSUE-SPECIFIC EXPRESSION OF MOUSE TRANSFERRIN DURING DEVELOPMENT AND AGING 1990

7/6/17 07423147 BIOSIS NO.: 000091029136
FERRITIN AND TRANSFERRIN LEVELS IN HUMAN BREAST CYST FLUIDS RELATIONSHIP WITH INTRACYSTIC ELECTROLYTE CONCENTRATIONS 1990

7/6/18 07377665 BIOSIS NO.: 000091004345
THE BINDING SITE FOR THE LIVER-SPECIFIC TRANSCRIPTION FACTOR TFI-LF1 AND THE TATA BOX OF THE HUMAN TRANSFERRIN GENE PROMOTER ARE THE ONLY ELEMENTS NECESSARY TO DIRECT LIVER-SPECIFIC TRANSCRIPTION IN-VITRO 1990

7/6/19 07377375 BIOSIS NO.: 000091004055
NEW EXPRESSIBLE V-H-GENE OF THE 36-60 FAMILY PARTICIPATES IN BIOSYNTHESIS OF ANTIBODIES AGAINST PIG TRANSFERRIN 1990

7/6/20 07319017 BIOSIS NO.: 000090058917
HUMAN TRANSFERRIN EXPRESSION AND IRON MODULATION OF CHIMERIC GENES IN TRANSGENIC MICE 1990

7/6/21 07278668 BIOSIS NO.: 000090058555
MODULATORS OF MACROPHAGE TRANSFERRIN OR TRANSFERRIN-LIKE PROTEIN 1990

7/6/22 07270806 BIOSIS NO.: 000090050685
PERCENT TRANSFERRIN SATURATION IN SEGREGATING HEMOCROMATOSIS 1990

7/6/23 07259340 BIOSIS NO.: 000090039216
TRANSFERRIN GENE EXPRESSION IN THE RAT MAMMARY GLAND INDEPENDENCE OF MATERNAL IRON STATUS 1990

7/6/24 07259330 BIOSIS NO.: 000090039206
LOCALIZATION OF TRANSFERRIN MESSENGER RNA IN RAT BY DNA RNA HYBRIDIZATION 1989

7/6/25 07235237 BIOSIS NO.: 000090015110
TRANSFERRIN GENE EXPRESSION AND SECRETION BY RAT BRAIN CELLS IN-VITRO 1990

7/6/26 07145418 BIOSIS NO.: 000038023463
THE STRUCTURE OF THE EXPRESSIBLE VH GENE FROM A HYBRIDOMA PRODUCING MONOCLONAL ANTIBODIES AGAINST PORCINE TRANSFERRIN 1989

7/6/27 07115437 BIOSIS NO.: 000039052131
EXPRESSION OF HUMAN CHIMERIC TRANSFERRIN GENES 1990

7/6/28 07069370 BIOSIS NO.: 000039006063
REGULATION OF TRANSFERRIN GENE EXPRESSION IN TRANSGENIC MICE 1990

7/6/29 06988486 BIOSIS NO.: 000089089750
EXPRESSION OF THE AMINO-TERMINAL HALF-MOLECULE OF HUMAN SERUM TRANSFERRIN IN CULTURED CELLS AND CHARACTERIZATION OF THE RECOMBINANT PROTEIN 1990

7/6/30 06973029 BIOSIS NO.: 000089084377
PULMONARY TRANSVASCULAR FLUX OF TRANSFERRIN 1989

7/6/32 06865305 BIOSIS NO.: 000089014895
EXPRESSION FROM THE TRANSFERRIN GENE PROMOTER IN TRANSGENIC MICE 1989

7/6/33 06808941 BIOSIS NO.: 000089119283
SEGREGATION OF GENETIC HEMOCHROMATOSIS INDEXED BY LATENT CAPACITY OF TRANSFERRIN 1989

7/6/34 06768565 BIOSIS NO.: 000088077998
IDENTIFICATION OF THE TRANSFERRIN AND LACTOFERRIN-BINDING PROTEINS IN HAEMOPHILUS-INFLUENZAE 1989

7/6/35 06762094 BIOSIS NO.: 000088071527
EFFECTS OF IRON OVERLOAD ON TRANSFERRIN SECRETION BY CULTURED FETAL RAT HEPATOcyTES 1989

7/6/36 06728285 BIOSIS NO.: 000088037711
TRANSFERRIN GENE EXPRESSION AND SYNTHESIS BY CULTURED CHOROID PLEXUS EPITHELIAL CELLS REGULATION BY SEROTONIN AND CYCLIC AMP 1989

7/6/37 06727198 BIOSIS NO.: 000088036624
REGULATION OF SERTOLIC CEL DIFFERENTIATED FUNCTION TESTICULAR TRANSFERRIN AND ANDROGEN-BINDING PROTEIN EXPRESSION 1989

7/6/38 06705791 BIOSIS NO.: 000088015209
CELL-TYPE-SPECIFIC EXPRESSION OF THE HUMAN TRANSFERRIN GENE ROLE OF PROMOTER NEGATIVE AND ENHANCER ELEMENTS 1989

7/6/39 06620121 BIOSIS NO.: 000087062283
MYELIN BASIC PROTEIN AND TRANSFERRIN CHARACTERIZE DIFFERENT SUBPOPULATIONS OF OLIGODENDROCYTES IN RAT PRIMARY GLIAL CULTURES 1988

7/6/40 06647564 BIOSIS NO.: 000037019575
THE REGULATION OF EXPRESSION OF THE TRANSFERRIN GENE IN BRAIN-DERIVED CELL LINES 1989

7/6/41 06365800 BIOSIS NO.: 000036068953
TRANSFERRIN EVOLUTION AND GENETIC REGULATION OF EXPRESSION 1988

7/6/42 06330851 BIOSIS NO.: 000036024004
EXPRESSION OF THE TRANSFERRIN TF GENE IN TRANSGENIC MICE 1988

7/6/43 06264134 BIOSIS NO.: 000086080317
VARIATION OF TRANSFERRIN AND ESTERASE IN SERA OF DOGS 1987

7/6/44 06246102 BIOSIS NO.: 000086080284
INTERACTIONS OF DNA-BINDING PROTEINS WITH THE 5' REGION OF THE HUMAN TRANSFERRIN GENE 1988

7/6/45 06225208 BIOSIS NO.: 000086069390
THE PREPARATION OF POLY-DT-5'-TRANSFERRIN CONJUGATES AND HYBRIDIZATION STUDIES WITH POLY-DA-TAILED LINEARIZED PBR322 PLASMID DNA 1988

7/6/46 06227518 BIOSIS NO.: 000086061700
TRANSFERRIN AN EARLY MARKER OF OLIGODENDROCYTES IN CULTURE 1988

7/6/47 06190720 BIOSIS NO.: 000086024902
TRANSFERRIN SECRETION AND HEPATOCYTE PLOIDY ANALYSIS AT THE SINGLE CELL LEVEL USING A SEMI-AUTOMATIC IMAGE ANALYSIS METHOD 1988

7/6/48 060984245 BIOSIS NO.: 000085057394
TRANSFERRIN MESSENGER RNA LEVEL IN THE MOUSE MAMMARY GLAND IS REGULATED BY PREGNANCY AND EXTRACELLULAR MATRIX 1987

7/6/49 06039094 BIOSIS NO.: 000085002243
MODULATION OF A FETOPROTEIN ALBUMIN AND TRANSFERRIN GENE EXPRESSION BY CELLULAR INTERACTIONS AND DEXAMEETHASONE IN COCULTURES OF FETAL RAT HEPATOCYTES 1987

7/6/50 06015917 BIOSIS NO.: 000035107280
EFFECTS OF FE OR TRANSFERRIN DEPRIVATION ON HUMAN LEUKEMIA CELL GENE EXPRESSION 1988

7/6/51 06012387 BIOSIS NO.: 000035103750
LEVELS OF TRANSFERRIN IN SEMINIFEROUS TUBULES OF STAGE SYNCHRONIZED TESTES 1988

7/6/52 05991388 BIOSIS NO.: 000035082751
ANALYSIS OF REGULATORY ELEMENTS FOR THE TISSUE-SPECIFIC EXPRESSION OF THE MOUSE TRANSFERRIN GENE 1988

7/6/53 05849592 BIOSIS NO.: 000034072441
HUMAN MACROPHAGE MATURATION IN-VITRO EXPRESSION OF FUNCTIONAL TRANSFERRIN BINDING SITES OF HIGH AFFINITY 1987

7/6/54 05848072 BIOSIS NO.: 000034071221
EXPRESSION OF GENES ENCODING THE VITAMIN D BINDING PROTEIN AND TRANSFERRIN 1987

7/6/55 05810440 BIOSIS NO.: 000034033589
CLONING AND STUDY OF THE TRANSFERRIN GENE IN MOUSE 1987

7/6/56 05807985 BIOSIS NO.: 000034031134
EXPRESSION OF THE HUMAN TRANSFERRIN TF GENE 1987

7/6/57 05807905 BIOSIS NO.: 000034031054
HUMAN LACTOTRANSFERRIN GENE LOCALIZES TO 3Q21-23 A REGION CONTAINING TRANSFERRIN-RELATED PROTEINS 1987

7/6/58 05751067 BIOSIS NO.: 000084099474
ACTIVATION OF NEUTROPHIL ALKALINE PHOSPHATASE OF CHRONIC MYELOGENOUS LEUKEMIA IN-VITRO LIQUID CULTURE TRANSFERRIN AS A NAP-ACTIVATING FACTOR 1987

7/6/59 05713727 BIOSIS NO.: 000084062133

DESIALYLATED TRANSFERRIN AS A SEROLOGICAL MARKER OF CHRONIC EXCESSIVE ALCOHOL INGESTION 1987

7/660 05686958 BIOSIS NO.: 00008403363 TRANSFERRIN GENE EXPRESSION IN CHOROID PLEXUS OF THE ADULT RAT BRAIN 1987

7/661 05601989 BIOSIS NO.: 000083075129 CONTRASTING LEVELS OF TRANSFERRIN GENE ACTIVITY IN CULTURED RAT SERTOLI CELLS AND INTACT SEMINIFEROUS TUBULES 1986

7/662 05560905 BIOSIS NO.: 000083033445 IN-VIVO VARIATIONS IN THE LEVEL OF TRANSFERRIN AND SCP-2 MESSENGER RNA IN SERTOLI CELLS FROM VITAMIN A DEFICIENT RATS EFFECTED BY IN-SITU HYBRIDIZATION 1986

7/663 0536382 BIOSIS NO.: 00003204951 HUMAN TRANSFERRIN TP GENE CONSERVED 5' SEQUENCES AND IN-VITRO EXPRESSION 1986

7/665 05203380 BIOSIS NO.: 000082044002 RAT TRANSFERRIN GENE EXPRESSION TISSUE-SPECIFIC REGULATION BY IRON DEFICIENCY 1986

7/666 05182601 BIOSIS NO.: 00008203222 BINDING OF DNA TO ALBUMIN AND TRANSFERRIN MODIFIED BY TREATMENT WITH WATER-SOLUBLE CARBODIMIDES 1986

7/667 05162883 BIOSIS NO.: 00008203504 ESTROGEN REGULATION OF THE AVIAN TRANSFERRIN GENE IN TRANSGENIC MICE 1986

7/668 05114518 BIOSIS NO.: 000081072642 ACTIVITIES DERIVED FROM ESTABLISHED HUMAN MYELOID CELL LINES REVERSE THE SUPPRESSION OF CELL LINE COLONY FORMATION BY LACTOFERRIN AND TRANSFERRIN 1986

7/669 0507284 BIOSIS NO.: 000081031408 A STUDY OF THE MICROHETEROGENEITY OF TRANSFERRIN IN RHOTIC PATIENTS 1985

7/670 05065078 BIOSIS NO.: 000081023202 TRANSFERRIN GENE EXPRESSION VISUALIZED IN OLIGODENDROCYTES OF THE RAT BRAIN BY USING INSITU HYBRIDIZATION AND IMMUNOHISTOCHEMISTRY 1985

7/671 05045557 BIOSIS NO.: 000081003681 A STUDY OF THE TRANSFERRIN AND HEMOGLOBIN POLYMORPHIC SYSTEMS IN THE LOCAL DUBENSKO SHEEP VARIETY 1985

7/672 0498436 BIOSIS NO.: 000081063568 TRANSFERRIN GENE EXPRESSION VISUALIZED IN SERTOLI CELLS OF THE RAT BY USING IN-SITU HYBRIDIZATION 1986

7/673 04756860 BIOSIS NO.: 000080015215 HIGH PREALBUMIN AND TRANSFERRIN MESSENGER RNA LEVELS IN THE CHOROID PLEXUS OF RAT BRAIN 1985

7/674 04712089 BIOSIS NO.: 000080015215 HIGH PREALBUMIN AND TRANSFERRIN MESSENGER RNA LEVELS IN THE CHOROID PLEXUS OF RAT BRAIN 1985

7/675 04663668 BIOSIS NO.: 000079076705

MAPPING OF THE TRANSFERRIN GENE IN LABORATORY RATS AND MICE AS WELL AS IN MAN BY DIRECT IN-SITU HYBRIDIZATION 1984

7/676 04597954 BIOSIS NO.: 000079010991 THE ABILITY OF INTRASPECIES AND INTERSPECIES HYBRID CELLS OF MOUSE HEPATOMA 22A TO SYNTHESIZE SERUM PROTEINS ALBUMIN AND TRANSFERRIN 1984

7/677 04531650 BIOSIS NO.: 000029054687 EXPRESSION OF THE GENES OF TRANSFERRIN AND ALDOLASE B DURING DEVELOPMENT OF THE RAT AND THE MOUSE 1984

7/678 04361908 BIOSIS NO.: 000078091453 EXPRESSION OF THE TRANSFERRIN GENE DURING DEVELOPMENT OF NONHEPATIC TISSUES HIGH LEVEL OF TRANSFERRIN MESSENGER RNA IN FETAL MUSCLE AND ADULT BRAIN 1984

7/679 04313759 BIOSIS NO.: 000078043282 CLONING OF DOUBLE STRANDED DNA TRANSCRIBED FROM RAT TRANSFERRIN MESSENGER RNA 1984

7/680 04285730 BIOSIS NO.: 000078015272 PURIFICATION AND CHARACTERIZATION OF TESTICULAR TRANSFERRIN SECRETED BY RAT SERTOLI CELLS 1984

7/681 04205930 BIOSIS NO.: 000077034974 EXPRESSION OF THE CHICKEN TRANSFERRIN GENE IN TRANS GENIC MICE 1983

7/682 04136239 BIOSIS NO.: 000027045791 IDENTIFICATION, CHARACTERIZATION AND MAPPING HUMAN TRANSFERRIN COMPLEMENTARY DNA 1984

7/683 03973686 BIOSIS NO.: 000076059252 THERMODYNAMIC BINDING CONSTANTS FOR GALLIUM TRANSFERRIN 1983

7/684 03829765 BIOSIS NO.: 000075007838 CORRELATION OF GROWTH RATE WITH CHANGES IN SERUM TRANSFERRIN CONCENTRATIONS IN GROWING BULLS 1982

7/685 03633781 BIOSIS NO.: 000074049358 EXPRESSION OF A HIGH AFFINITY MECHANISM FOR ACQUISITION OF TRANSFERRIN IRON BY NEISSERIA-MENINGITIDIS 1982

7/686 03552202 BIOSIS NO.: 000073055283 NATURAL ANTIBODIES AGAINST TUBULIN ACTIN MYO GLOBIN THYRO GLOBULIN RETIN ALBUMIN AND TRANSFERRIN ARE PRESENT IN NORMAL HUMAN SERA AND MONO CLONAL IMMUNOGLOBULINS FROM MULTIPLE MYELOMA AND WALDENSTROM'S MACRO GLOBULINEMIA MAY EXPRESS SIMILAR ANTIBODY SPECIFICITIES 1981

7/687 03039988 BIOSIS NO.: 000070065606 TRANSFERRIN CATABOLISM IN MAMMALIAN SPECIES OF DIFFERENT BODY SIZES 1980

7/688 02956320 BIOSIS NO.: 0000659064438 TRANSFERRIN GENE EXPRESSION REGULATION OF MESSENGER RNA TRANSCRIPTION IN CHICK LIVER BY STEROID HORMONES AND IRON DEFICIENCY 1980

7/689 02956319 BIOSIS NO.: 0000659064437 TRANSFERRIN GENE EXPRESSION EFFECTS OF NUTRITIONAL IRON DEFICIENCY 1980

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07853913 BIOSIS NO.: 000041103534 HUMAN TRANSFERRIN EXPRESSION OF CHIMERIC GENES IN TRANSGENIC MICE

AUTHOR: ADRIAN G S; HERBERT D C; ROBINSON L K; ADRIAN E K; WALTER C A; WEAKER F J; YANG F; BOWMAN B H

AUTHOR ADDRESS: DEP. CELLULAR STRUCTURAL BIOL. UNIV. TEXAS HEALTH SCI. CENTER, 703 FLOYD CURL DR. SAN ANTONIO, TEX. 78284, USA.

JOURNAL: ALBERTINI, A., ET AL. (ED.), CURRENT STUDIES IN HEMATOLOGY AND BLOOD TRANSFUSION, NO. 58.

BIO TECHNOLOGY OF PLASMA PROTEINS: HEMOSTASIS,

7/691 02482152 BIOSIS NO.: 000066064704 THE ACTION OF ESTROGEN AND PROGESTERONE ON THE EXPRESSION OF THE TRANSFERRIN GENE A COMPARISON OF THE RESPONSE IN CHICK LIVER AND OVIDUCT 1978

7/692 02355724 BIOSIS NO.: 000063012743 OVO TRANSFERRIN SUBFRACTION DEPENDENT UPON CARBOHYDRATE CHAIN DIFFERENCES 1977

7/693 00308946 BIOSIS NO.: 000050123946 ABNORMAL EXPRESSION OF NORMAL TRANSFERRIN ALLELES IN CATTLE 1969

THROMBOSIS AND IRON PROTEINS; INTERNATIONAL SYMPOSIUM ON BIOTECHNOLOGY OF PLASMA PROTEINS, FLORENCE, ITALY, APRIL 9-11, 1990. IX+15P. S. KARGER AG: BASEL, SWITZERLAND; NEW YORK, NEW YORK, USA. ILLUS. ISBN 3-8055-520-5. 0 (0). 1991. 04-108. 1991 CODEN: CSHT RECORD TYPE: Citation LANGUAGE: ENGLISH

7/7/8 DIALOG(R)File 5:Biosis Previews(R) (c) 2001 BIOSIS. All rts. reserv.

07681906 BIOSIS NO.: 000092028827

SERTOLI CELL-SPECIFIC EXPRESSION OF THE HUMAN TRANSFERRIN GENE COMPARISON WITH THE LIVER-SPECIFIC EXPRESSION

AUTHOR: GUILLOU F; ZAKIN M M; PART D; BOISSIER F; SCHAEFFER E

AUTHOR ADDRESS: LABORATOIRE D'EXPRESSION DES CARBYOTES. INSTITUT PASTEUR, 75724 PARIS CEDEX 15, FR.

JOURNAL NAME: Journal of Biological Chemistry CODEN: JBCHA RECORD TYPE: Abstract LANGUAGE: ENGLISH

ABSTRACT: We present a comparative study of the cis- and trans-acting elements governing the expression of the human transferrin (Tf) gene in two tissues, liver and testis, where Tf is expressed at various levels. We have previously identified the elements of the promoter, negative, and enhancer regions involved in the liver-specific expression of the gene. By transfection experiments of primary cultured rat Sertoli cells compared with hepatoma cells, DNase I footprinting, and gel retardation studies, we have analyzed 3.6 kilobase pairs of the Tf regulatory region. The far upstream enhancer functional in Hep3B cells is inactive in Sertoli cells; in the two cell types, different nuclear factors appear to bind to a DNA domain crucial for enhancer activity. Similar negative- and positive-acting elements are present in the distal promoter in both tissues. However, different combinations of proximal promoter elements control tissue-specific expression. Liver-specific transcription is governed by the interaction of the Tf-LF1 protein and a C/EBP-related factor with the -125 to -45 region. In Sertoli cells, a -34 to -18 TATA box binding factor is sufficient to initiate basal-level transcription. Efficient expression is achieved by the association of two factors binding either to the (-82, -1) or to the (-153, -52) region. The addition of a third adjacent element decreases the promoter activity, suggesting that the balance of three factors binding to the proximal sites regulates testis-specific expression.

JOURNAL: NUCLEIC ACIDS RES 18 (19) 1990. 5717-5722. 1990 FULL. JOURNAL NAME: Nucleic Acids Research CODEN: NARHA RECORD TYPE: Abstract LANGUAGE: ENGLISH

ABSTRACT: We have studied the liver-specific transcriptional activity of the human transferrin gene promoter. Results of competition experiments, site-directed mutagenesis, and 5' deletion analysis have demonstrated that a TATA box and a binding site for the liver-specific protein Tf-LF1 are the only elements needed to direct hepatic-specific transcription in vitro. Thus, Tf-LF1 behaves as other previously described proteins, HNF-1, DBP and LF-1, in that it is sufficient to confer liver-specific transcriptional activity to a promoter in vitro. This results contrast with observations made in transient expression experiments, in which Tf-LF1 binding alone cannot direct hepatic-specific expression, and the binding of at least one more protein, similar to C/EBP, is needed. Thus, as described for other hepatic genes, the number of elements necessary to confer tissue specificity is different in vivo and in vitro.

JOURNAL: J BIOL CHEM 266 (15). 1991. 9876-9884. 1991 FULL. JOURNAL NAME: Journal of Biological Chemistry CODEN: JBCHA RECORD TYPE: Abstract LANGUAGE: ENGLISH

ABSTRACT: We have previously identified the elements of the promoter, negative, and enhancer regions involved in the liver-specific expression of the gene. By

transfection experiments of primary cultured rat Sertoli cells compared with hepatoma cells, DNase I footprinting, and gel retardation studies, we have

analyzed 3.6 kilobase pairs of the Tf regulatory region. The far upstream

enhancer functional in Hep3B cells is inactive in Sertoli cells; in the two cell

types, different nuclear factors appear to bind to a DNA domain crucial for

enhancer activity. Similar negative- and positive-acting elements are present

in the distal promoter in both tissues. However, different combinations of

proximal promoter elements control tissue-specific expression. Liver-

specific transcription is governed by the interaction of the Tf-LF1 protein

and a C/EBP-related factor with the -125 to -45 region. In Sertoli cells, a -

-34 to -18 TATA box binding factor is sufficient to initiate basal-

level transcription. Efficient expression is achieved by the association of two

factors binding either to the (-82, -1) or to the (-153, -52) region. The

addition of a third adjacent element decreases the promoter

activity, suggesting that the balance of three factors binding to the

proximal sites regulates testis-specific expression.

THE BINDING SITE FOR THE LIVER-SPECIFIC TRANSCRIPTION FACTOR TF-LF1 AND THE TATA BOX OF THE HUMAN TRANSFERRIN GENE PROMOTER ARE THE ONLY ELEMENTS NECESSARY TO DIRECT LIVER-SPECIFIC TRANSCRIPTION IN-VITRO

AUTHOR: MENDELZON D; BOISSIER F; ZAKIN M M

AUTHOR ADDRESS: LAB. D'EXPRESSION DES GENES EUCARYOTES. INST. PASTEUR, 28 RUE DU DOCTEUR ROUX, 75724 PARIS CEDEX 15, FRANCE.

JOURNAL: NUCLEIC ACIDS RES 18 (19) 1990. 5717-5722. 1990 FULL. JOURNAL NAME: Nucleic Acids Research CODEN: NARHA RECORD TYPE: Abstract LANGUAGE: ENGLISH

ABSTRACT: We have studied the liver-specific transcriptional activity of the human transferrin gene promoter. Results of competition experiments, site-directed mutagenesis, and 5' deletion analysis have demonstrated that a TATA box and a binding site for the liver-specific protein Tf-LF1 are the only elements needed to direct hepatic-specific transcription in vitro. Thus, Tf-LF1 behaves as other previously described proteins, HNF-1, DBP and LF-1, in that it is sufficient to confer liver-specific transcriptional activity to a promoter in vitro. This results contrast with observations made in transient expression experiments, in which Tf-LF1 binding alone cannot direct hepatic-specific expression, and the binding of at least one more protein, similar to C/EBP, is needed. Thus, as described for other hepatic genes, the number of elements necessary to confer tissue specificity is different in vivo and in vitro.

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07319017 BIOSIS NO.: 000090098917

HUMAN TRANSFERRIN EXPRESSION AND IRON MODULATION OF CHIMERIC GENES IN TRANSGENIC MICE

AUTHOR: ADRIAN G S; BOWMAN B H; HERBERT D C; WEAKER F J; ADRIAN E K; ROBINSON L K; WALTER C A; EDDY C A; RIEHL R; ET AL

AUTHOR ADDRESS: DEP. CELLULAR STRUCTURAL BIOL., UNIVERSITY TEXAS HEALTH SCI. CENTER, SAN ANTONIO, TEXAS 78284.

JOURNAL: J BIOL CHEM 265 (22). 1990. 13344-13350. 1990 FULL. JOURNAL NAME: Journal of Biological Chemistry CODEN: JBCHA RECORD TYPE: Abstract LANGUAGE: ENGLISH

ABSTRACT: Transferrin (Tf) is a plasma protein that transports and is regulated by iron. The aim of this study was to characterize human Tf gene sequences that respond in vivo to cellular signals affecting expression in various tissues and to iron administration. Chimeric genes were constructed containing 152, 622, and 1152 base pairs (bp) of the human Tf 5'-flanking region with the coding region of a reporter gene, CAT (chloramphenicol acetyltransferase), and introduced into the germ line of mice. Transgenes containing Tf 5'-flanking sequences to -152 bp were expressed poorly in all tissues examined. In contrast,

The human Tf 5'-flanking region with the coding region of a reporter gene, CAT (chloramphenicol acetyltransferase), and introduced into the germ line of mice. Transgenes containing Tf 5'-flanking sequences to -152 bp were expressed poorly in all tissues examined. In contrast,

transgenes containing Tf sequences to -622 or -1152 bp were expressed at high levels in brain and liver, >1000-fold higher than tissues such as heart and testes. Liver and brain are major sites of endogenous Tf mRNA synthesis, but liver mRNA levels are 10-fold higher than brain. A significant diminution of CAT enzymatic activity in liver accompanied iron administration in both Tf(0.67) and Tf(1.2)CAT transgenic mice, mimicking the decrease of transferrin in humans following iron overload. Levels of endogenous plasma transferrin also decreased in iron-treated transgenic mice. Transgenic mouse lines carrying human Tf chimeric genes will be useful models for analyzing the regulation of human transferrin by iron and for determining the molecular basis of

transferrin regulation throughout mammalian development into the aging process.

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0723237 BIOSIS NO.: 000090015110

TRANSFERRIN GENE EXPRESSION AND SECRETION BY RAT BRAIN CELLS IN-VITRO

AUTHOR: ESPINOSA DE LOS MONTEROS A; KUMAR S; SCULLY S; COLE R; DE VELLIS J

AUTHOR ADDRESS: UNIVERSITY CALIFORNIA AT LOS ANGELES, MENTAL RETARDATION RES. CENTER, 760 WESTWOOD PLAZA, ROOM 68-177 NPI, LOS ANGELES, CALIF. 90024.

JOURNAL: J NEUROSCI RES 25 (4). 1990. 576-580. 1990 FULL. JOURNAL NAME: Journal of Neuroscience Research CODEN: JNRED RECORD TYPE: Abstract LANGUAGE: ENGLISH

ABSTRACT: We have previously shown by immunocytochemistry in rat primary glial cultures that transferrin (Tf) is an early developmental marker for oligodendrocytes. The present work addresses the issue of Tf gene expression and synthesis by neural cells in vitro. For this purpose, we used rat embryonic neuronal cultures and newborn glial cultures of astrocytes and oligodendrocytes. Cultured fibroblasts and C6 glioma cells were used as negative controls. We found that Tf mRNA is present in oligodendrocytes, astrocytes, and neurons. However, oligodendrocytes and astrocytes, but not neurons, were shown to synthesize and secrete Tf. Neither fibroblasts nor C6 glioma cells expressed detectable amounts of Tf mRNA. If Tf mRNA levels in astrocyte cultures appeared to be under hormonal control since hydrocortisone markedly reduced message levels. These results show that both astrocytes and oligodendrocytes can synthesize and secrete Tf under cell culture conditions. However, epigenetic factors, such as hydrocortisone, may repress the expression of Tf in astrocytes in vivo.

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07069370 BIOSIS NO.: 00003906063

REGULATION OF TRANSFERRIN GENE EXPRESSION IN TRANSGENIC MICE

AUTHOR: HERBERT D C; SHERIDAN P J; WEAKER F J; WALTER C A; ADRIAN G S; BOWMAN B H

AUTHOR ADDRESS: DEP. CELLULAR STRUCTURAL BIOL., UNIV. TEXAS HEALTH SCI. CENTER, SAN ANTONIO, TEX.

JOURNAL: ONE HUNDRED AND THIRD ANNUAL MEETING OF THE AMERICAN ASSOCIATION OF ANATOMISTS, PHILADELPHIA, PENNSYLVANIA, USA, APRIL 22-25, 1990. ANAT REC 226 (4). 1990. 43A. 1990 CODEN: ANREA DOCUMENT TYPE: Meeting RECORD TYPE: Citation LANGUAGE: ENGLISH

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06988486 BIOSIS NO.: 000089089750

EXPRESSION OF THE AMINO-TERMINAL HALF-MOLECULE OF HUMAN SERUM TRANSFERRIN IN CULTURED CELLS AND CHARACTERIZATION OF THE RECOMBINANT PROTEIN

AUTHOR: FUNK W D; MACGILLIVRAY R T A; MASON A B; BROWN S A; WOODWORTH R C

AUTHOR ADDRESS: DEPARTMENT OF BIOCHEMISTRY, UNIVERSITY OF BRITISH COLUMBIA, VANCOUVER, BRITISH COLUMBIA V6T 1W5.

JOURNAL: BIOCHEMISTRY 29 (6). 1990. 1654-1660. 1990 FULL. JOURNAL NAME: Biochemistry

7/7/18 DIALOG(R)File 5:Biosis Previews(R) (c) 2001 BIOSIS. All rts. reserv.

07377665 BIOSIS NO.: 000091004345

HUMAN TRANSFERRIN Tf GENE CONSERVED 5' SEQUENCES
AND IN-VITRO EXPRESSION

AUTHOR: ADRIAN G S; YANG F; BOWMAN B H

AUTHOR ADDRESS: UNIV. TEX. HEALTH SCI. CENT., SAN ANTONIO, TEX.

JOURNAL: 37TH ANNUAL MEETING OF THE AMERICAN SOCIETY OF HUMAN GENETICS, PHILADELPHIA, PA, USA, NOV. 2-5, 1986.

AM J HUM GENET 39 (3 SUPPL). 1986. A185. 1986

CODEN: AJHG A DOCUMENT TYPE: Meeting RECORD TYPE: Citation

LANGUAGE: ENGLISH

7/7/67 DIALOG(R)File 5:Biosis Previews(R) (c) 2001 BIOSIS. All rts.

051683 BIOSIS NO.: 000082033504

ESTROGEN REGULATION OF THE AVIAN TRANSFERRIN GENE IN TRANSGENIC MICE

AUTHOR: HAMMER R E; IDZERDA R L; BRINSTER R L; MCKNIGHT G J

AUTHOR ADDRESS: LAB. REPRODUCTIVE PHYSIOL., SCH. VET. MED., UNIV. PA., PHILADELPHIA, PA, 19104.

JOURNAL: MOL CELL. BIOL 6 (4). 1986. 1010-1014. 1986 FULL JOURNAL NAME: Molecular and Cellular Biology CODEN: MCCEBD

RECORD TYPE: Abstract LANGUAGE: ENGLISH

ABSTRACT: The intact chicken transferrin genes was microinjected into fertilized mouse eggs, and the resulting transgenic animals were used to produce lines of mice containing integrated copies of the chicken gene. The levels of expression of the chicken gene were quantitated in various tissues, and the response of the gene to estrogen stimulation was measured after chronic or acute estrogen exposure. Two of the three mouse lines studied maintained stable levels in expression in successive generations of offspring, and the third line had two- to threefold-higher levels in offspring than in the original parent. In the third-line, the original transgenic parent was found to be a mosaic. The chicken transferrin gene was expressed at 10- to 20-fold-higher levels in liver than in any tissue; however, the levels of chicken transferrin mRNA in kidney were higher than expected, indicating that the tissue specificity was only partial. In all three lines, the foreign gene was induced by estrogen administration. After 10 days of gen administration, there was a twofold increase in both transferrin and transcription of the chicken transferrin gene. A single injection of estradiol led to a fourfold increase in transferrin mRNA synthesis at 4 h. As a control the levels of mouse albumin were measured, and both the level of albumin mRNA and its rate of transcription declined about twofold after estrogen administration. Our results indicate that the intact chicken gene with 2.2 kilobases of 5' flanking sequence contains signals for both tissue specificity and steroid regulation that can be recognized in mice.

9/6/1 10463257 BIOSIS NO.: 199639984402

Transferin receptor-independent uptake of diteric transferin by human hepatoma cells with antisense inhibition of receptor expression. 1996

9/6/2 07224817 BIOSIS NO.: 000090028047

RECEPTOR-MEDIATED ENDOCYTOSIS OF TRANSFERRIN-POLYCACTION CONJUGATES AN EFFICIENT WAY TO INTRODUCE DNA INTO HEMATOPOIETIC CELLS 1990

9/6/3 07222817 BIOSIS NO.: 000090012690

TRANSFERRIN-POLYCACTION CONJUGATES AS CARRIERS FOR DNA UPTAKE INTO CELLS 1990

EXPRESSION OF THE AMINO-TERMINAL HALF-MOLECULE OF HUMAN SERUM TRANSFERRIN IN CULTURED CELLS AND CHARACTERIZATION OF THE RECOMBINANT PROTEIN

9/6/6 06235208 BIOSIS NO.: 000082032322

THE PREPARATION OF POLY-DT-5'-TRANSFERRIN CONJUGATES AND HYBRIDIZATION STUDIES WITH POLY-DA-TAILED LINEARIZED PBR322 PLASMID DNA 1988

9/6/8 04663668 BIOSIS NO.: 000079076705

MAPPING OF THE TRANSFERRIN GENE IN LABORATORY RATS AND MICE AS WELL AS IN MAN BY DIRECT IN-SITU HYBRIDIZATION 1984

9/6/9 04329766 BIOSIS NO.: 000078059310

HUMAN TRANSFERRIN COMPLEMENTARY DNA CHARACTERIZATION AND CHROMOSOMAL LOCALIZATION 1984

9/6/10 04313739 BIOSIS NO.: 000078043282

CLONING OF DOUBLE STRANDED DNA TRANSCRIBED FROM RAT TRANSFERRIN MESSENGER RNA 1984

9/6/11 04241248 BIOSIS NO.: 000077067293

ISOLATION OF COMPLEMENTARY DNA CLONES FOR THE HUMAN TRANSFERRIN RECEPTOR 1983

9/6/12 04136239 BIOSIS NO.: 000027045791

IDENTIFICATION, CHARACTERIZATION AND MAPPING HUMAN TRANSFERRIN COMPLEMENTARY DNA 1984

9/6/13 03935782 BIOSIS NO.: 000076021348

AEROBACTIN-MEDIATED UTILIZATION OF TRANSFERRIN IRON 1982

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07115437 BIOSIS NO.: 000039052131

EXPRESSION OF HUMAN CHIMERIC TRANSFERRIN GENES

AUTHOR: ADRIAN G S; RIEHL R; HERBERT D C; WEAKER F J; ADRIAN E K; ROBINSON L K; WALTER C A; EDDY C A; PAUERSTEIN C J; ET AL

AUTHOR ADDRESS: DEP. CELL. STRUCT. BIOL., UNIV. TEX. HEALTH SCI. CENT., SAN ANTONIO, TEX. 78284, USA.

JOURNAL: FINCH, C. E. AND T. E. JOHNSON (ED.), UCLA (UNIVERSITY OF CALIFORNIA-LOS ANGELES) SYMPOSIA ON MOLECULAR AND CELLULAR BIOLOGY NEW SERIES, VOL. 123.

MOLECULAR BIOLOGY OF AGING; COLLOQUIUM, SANTA FE, NEW MEXICO, USA, MARCH 4-10, 1989. XVII+430P. WILEY-LISS: NEW YORK, NEW YORK, USA. ILLUS. ISBN 0-471-56721-3. 0 (0).

1990. 365-378. 1990 CODEN: USMBD RECORD TYPE: Citation

LANGUAGE: ENGLISH

9/7/5 DIALOG(R)File 5:Biosis Previews(R) (c) 2001 BIOSIS. All rts.

04329766 BIOSIS NO.: 000078059310

HUMAN TRANSFERRIN COMPLEMENTARY DNA

CHARACTERIZATION AND CHROMOSOMAL LOCALIZATION

AUTHOR: YANG F; LUM J B; MCGILL J R; MOORE C M; NAVIORS L; VAN BRAGT P H; BALDWIN W D; BOWMAN B H

AUTHOR ADDRESS: DIV. GENETICS, UNIV. TEXAS HEALTH SCI. CENT. SAN ANTONIO 7703 FLOYD CURL DRIVE, SAN ANTONIO, TEX. 78284.

JOURNAL: PROC NATL ACAD SCI U S A 81 (9). 1984. 2752-2756. 1984

FULL JOURNAL NAME: Proceedings of the National Academy of Sciences of the United States of America

CODEN: PNASA RECORD TYPE: Abstract LANGUAGE: ENGLISH

ABSTRACT: Transferin (Tf) is the major Fe binding protein in vertebrate serum. It shares homologous amino acid sequences with 4 other proteins: lactotransferrin, ovoalbumin, melanoma antigen p97 and HuBlym-1.

Antigen p97 and the Tf receptor genes have been mapped on human chromosome 3. The characterization of the Tf gene was initiated by identifying and characterizing its complementary DNA and mapping its chromosomal location. Recombinant plasmids containing human cDNA encoding Tf were isolated by screening an adult human liver library with a mixed oligonucleotide probe. Within the 2.3 kbase pairs of Tf cDNA analyzed, there is a probable leader sequence encoded by 57 nucleotides

JOURNAL: BIOCHEMISTRY 29 (6). 1990. 1654-1660. 1990 FULL JOURNAL NAME: Biochemistry

CODEN: BICHA RECORD TYPE: Abstract LANGUAGE: ENGLISH

ABSTRACT: A human liver cDNA library was screened with a synthetic oligonucleotide, complementary to the 5' region of human transferrin mRNA, as a hybridization probe. The full-length human cDNA clone isolated from this screen contained part of the 5' untranslated region, the complete coding region for the signal peptide and the two lobes of transferrin, the 3' untranslated region, and a poly(A) tail. By use of oligonucleotide-directed mutagenesis in vitro, two translational stop codons and a HindIII site were introduced after the codon for Asp-337. This fragment was undetectable in bacteria transformed by these plasmids. Concurrently, we developed a plasmid vector for the expression of recombinant hTF2/N in eukaryotic cells. In this case, a DNA fragment coding for the natural signal sequence, the hTF2/N lobe, and the two stop codons was cloned into the expression vector pNU17, such that the expression of hTF2/N was controlled by the mouse metallothionein promoter and the human growth hormone termination sequences. Baby hamster kidney cells containing this hTF2/N-pNU17 plasmid secreted up to 20 mg of recombinant hTF2/N per liter of tissue culture medium. Recombinant hTF2/N was purified from the medium by successive chromatography steps on DEAE-Sephadex, Sephadex G-75, and FPLC on Polyamid SI. The purified protein was characterized by NaDODSO4-PAGE, urea-PAGE, amino-terminal sequence analysis, UV-visible spectroscopy, iron-binding titration, and proton NMR. By these criteria, the recombinant hTF2/N appeared to behave identically with the proteolytically derived half-molecule, but to show a higher degree of monodispersity than the latter protein. Addition of m-fluorotyrosine to the culture medium resulted in random incorporation of this amino acid into cellular protein in lieu of tyrosine. Purified recombinant 19F-Tyr hTF2/N gave four well-resolved 19F NMR resonances of 20-40 Hz line width, two with suggestions of shoulders.

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04329766 BIOSIS NO.: 000078059310

HUMAN TRANSFERRIN COMPLEMENTARY DNA

CHARACTERIZATION AND CHROMOSOMAL LOCALIZATION

AUTHOR: YANG F; LUM J B; MCGILL J R; MOORE C M; NAVIORS L; VAN BRAGT P H; BALDWIN W D; BOWMAN B H

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JOURNAL: PROC NATL ACAD SCI U S A 81 (9). 1984. 2752-2756. 1984

FULL JOURNAL NAME: Proceedings of the National Academy of Sciences of the United States of America

CODEN: PNASA RECORD TYPE: Abstract LANGUAGE: ENGLISH

ABSTRACT: Transferin (Tf) is the major Fe binding protein in vertebrate serum. It shares homologous amino acid sequences with 4 other proteins: lactotransferrin, ovoalbumin, melanoma antigen p97 and HuBlym-1.

Antigen p97 and the Tf receptor genes have been mapped on human

chromosome 3. The characterization of the Tf gene was initiated by

identifying and characterizing its complementary DNA and mapping its

chromosomal location. Recombinant plasmids containing human cDNA

encoding Tf were isolated by screening an adult human liver library with a

mixed oligonucleotide probe. Within the 2.3 kbase pairs of Tf cDNA

analyzed, there is a probable leader sequence encoded by 57 nucleotides

carboxyl domains. During evolution, 3 areas of the homologous amino and carboxyl domains were strongly conserved, possibly reflecting functional constraints associated with Fe binding. Chromosomal mapping by *in situ* hybridization and somatic cell hybrid analysis indicates that the T1 gene is located at q21.2-25 on human chromosome 3, consistent with linkage of the Tf, Tf receptor, and melanoma p97 loci.

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04313739 BIOSIS NO.: 000078043282

CLONING OF DOUBLE STRANDED DNA TRANSCRIBED FROM RAT TRANSFERRIN MESSENGER RNA

AUTHOR: RYSKOVA P; TIMCHENKO N A; TIMCHENKO L T; SALIKHOV T; GAIKSHKOVI V S

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JOURNAL NAME: MOL BIOL (MOSC) 18 (1). 1984. 104-114. 1984 FULL

RECORD TYPE: Abstract LANGUAGE: RUSSIAN

ABSTRACT: Two-stage synthesis of double-stranded DNA was performed using purified rat transferrin mRNA as a template, reverse transcriptase and DNA polymerase I. Double-stranded transcripts of transferrin mRNA were cloned as recombinant plasmid derivatives of pBR322. The insert length in these plasmids varied from 150-1500 bp [base pairs]. Clones carrying transferrin mRNA sequences were identified using colony hybridization and Southern blot hybridization with 32P-[c]complementary]DNA probe. Nick-translated DNA from transformed clones hybridized with a single component of rat liver polysomal RNA that corresponded to transferrin mRNA in its MW (0.86 MD [mean deviation]). In hybridization selection cell-free translation test, cloned plasmid DNA hybridized specifically with rat liver poly(A)+RNA that programmed the cell-free synthesis of a polypeptide identical to pretransferrin in antigenic properties and MW.

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04241248 BIOSIS NO.: 00007706793

ISOLATION OF COMPLEMENTARY DNA CLONES FOR THE HUMAN TRANSFERRIN RECEPTOR

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JOURNAL: EMBO (EUR MOL BIOL ORGAN J 2 (12). 1983. 2259-2264.

1983 FULL JOURNAL NAME: EMBO (European Molecular Biology Organization) JOURNAL CODEN: EMJOD RECORD TYPE: Abstract LANGUAGE: ENGLISH

ABSTRACT: A c[omplementary]DNA clone bank containing 30,000 clones was constructed from sucrose gradient-fractionated mRNA from human placenta. mRNA coding for transferrin receptor (TR) was enriched by polysome immunoadsorbed chromatography with monospecific rabbit IgG and protein-A Sepharose. The library was screened for hybridization to 32P-labeled cDNA synthesized from immunoselected TR mRNA and from poly(A)+ RNA of the polysome fraction that failed to bind to protein-A Sepharose. Plasmids isolated from colonies showing hybridization only to the probe made from immunoselected mRNA were then subjected to hybrid selection. Two clones, pTR-48 and pTR-67, were able to hybridize the mRNA coding for the TR.

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04136239 BIOSIS NO.: 000027045791

IDENTIFICATION CHARACTERIZATION AND MAPPING HUMAN TRANSFERRIN COMPLEMENTARY DNA

AUTHOR: YANG F; LUM J B; MCGILL J R; MOORE C M; VAN BRAGT P H; BALDWIN W D; BOWMAN B H

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13TH ANNUAL UCLA (UNIVERSITY OF CALIFORNIA - LOS ANGELES) SYMPOSIUM, LOS ANGELES, CALIF., USA, FEB. 11-17, 1984. J CELL BIOCHEM 0 (8 PART A) 1984. 42. 1984 CODEN: JCBSD DOCUMENT TYPE: Meeting RECORD TYPE: Citation LANGUAGE: ENGLISH

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10/6/3 12731730 BIOSIS NO.: 200000485232 Rev-binding aptamer and CMV promoter act as decoys to inhibit HIV replication. 1999

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